



Calendar Year: 2026/2027

PROGRAM PLANNING GUIDE

Name: _____

ID:

Bachelor of Science

Applied Statistics



Statistics is the study of the collection, organization, analysis, interpretation and presentation of data. In a world that is increasingly data-driven, knowing how to extract and interpret information is key. Statistics help evaluate ideas, test hypotheses and give clarity to complex issues. The major in applied statistics is structured to provide a firm theoretical background in statistics and to allow you to apply specific statistical techniques within your discipline of interest. The program has three possible concentrations: economics, geography, psychology.

What determines my program requirements?

Please refer to the Academic Calendar (www.ulethbridge.ca/ross/academic-calendar) for complete program information.

Calendar Year: 2026/2027 - Your calendar year is set to the academic year you are admitted (or readmitted) and you should follow the requirements for that year for the duration of your program.

Faculty/School: Faculty of Arts and Science (www.ulethbridge.ca/artsci)

Program(s): Bachelor of Science

Major(s): Applied Statistics

Minor: A defined set of courses, designed to provide depth in a particular discipline, study in an interdisciplinary area, or focus on a theme-related topic. To learn more about optional minors see www.ulethbridge.ca/ross/minors.

Am I admissible to this program?

Admission: www.ulethbridge.ca/ross/admissions/undergrad

Transfer: www.ulethbridge.ca/ross/transfer-resources

When/How do I apply to the University?

Deadlines: www.ulethbridge.ca/ross/admissions/undergrad/deadlines

Step-by-Step: www.ulethbridge.ca/ross/admissions/step-by-step

Where can I find information on courses?

Course Catalogue: www.ulethbridge.ca/ross/courses

Registration Guide: www.ulethbridge.ca/ross/registration-guide

When can I register for classes?

Register early! (March for Summer and Fall; November for Winter)

Registration Dates: www.ulethbridge.ca/ross/registration-dates

How can I enhance my program?

Career Bridge: www.ulethbridge.ca/career-bridge

Co-op Education: www.ulethbridge.ca/career-bridge/co-operative-education

Honours Thesis: www.ulethbridge.ca/ross/undergraduate-thesis

Double Major: www.ulethbridge.ca/ross/double-major

What supports are available to students?

Student Services: www.ulethbridge.ca/campus-life/student-services

Student Success Centre: www.ulethbridge.ca/student-success-centre

Accessible Learning: www.ulethbridge.ca/ross/alc

Counselling Services: www.ulethbridge.ca/counselling



Version: February 17, 2026

Contact an Academic Advisor (www.ulethbridge.ca/ross/academic-advising) for advising information

This is a planning guide and not a graduation check or guarantee of course offerings. You should have a program check done in your final year of studies. Students are responsible for ensuring they have met program requirements. This guide should be used in conjunction with the University of Lethbridge Academic Calendar, which is the final authority on program requirements and academic regulations.



Required courses and notes

Major Requirements (23 Courses)

- _____ 1. Computer Science 1620 - Fundamentals of Programming I
- _____ 2. Mathematics 1410 - Elementary Linear Algebra
- _____ 3. Statistics 1770 - Introduction to Probability and Statistics
- _____ 4. Statistics 3500 - Mathematical Probability
- _____ 5. Statistics 3510 - Mathematical Statistics
- _____ 6. **One of:**
 - _____ Mathematics 1560 - Calculus I
 - _____ Mathematics 1565 - Accelerated Calculus I
- _____ 7. **One of:**
 - _____ Mathematics 2560 - Calculus II
 - _____ Mathematics 2565 - Accelerated Calculus II
- _____ 8. **One of:**
 - _____ Statistics 2780 - Statistical Inference
 - _____ Economics 2900 - Economics and Business Statistics
- _____ 9. One additional course (3.0 credit hours) in Statistics at the 2000 level or above
- _____ 10. One additional course (3.0 credit hours) in Statistics at the 3000 level or above
- _____ 11. One course (3.0 credit hours) at the 4000 level in Statistics

Required Concentration:

For the Major in Applied Statistics, all students must complete one of the following concentrations:

- _____ **12.-23. Concentration in Economics (10 courses & 2 electives)**
 - _____ Economics 1010 - Introduction to Microeconomics
 - _____ Economics 1012 - Introduction to Macroeconomics
 - _____ Economics 2750 - Quantitative Methods in Economics
 - _____ Economics 3010 - Intermediate Microeconomic Theory
 - _____ Economics 3012 - Intermediate Macroeconomic Theory
 - _____ Economics 3950 - Econometrics I
 - _____ Economics 4960 - Econometrics II
 - _____ One additional course (3.0 credit hours) in Economics at the 3000/4000 level
- _____ Two additional courses (6.0 credit hours) in Economics at the 4000 level
- _____ Two additional courses (6.0 credit hours) chosen to complete program requirements

_____ **12.-23. Concentration in Geography (10 courses & 2 electives)**

- _____ Geography 1000 - Introduction to Physical Geography
- _____ Geography 1200 - Introduction to Human Geography
- _____ Geography 2210 - Spatial Organization of Economic Activity
- _____ Geography 2700 - Geographical Data and Analysis
- _____ Geography 2735 - Introduction to Geographical Information Science
- _____ Geography 3720 - Remote Sensing
- _____ Geography 3740 - Geographical Information Systems

One of:

- _____ Geography 2030 - Geomorphology
- _____ Geography 2300 - Weather and Climate

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One of:

- _____ Geography 3735 - Analysis of Environmental Data
- _____ Geography 4725 - Advanced Remote Sensing
- _____ Geography 4740 - Advanced Geographical Information Systems
- _____ Remote Sensing 4650 - Physics of Remote Sensing
- _____ One additional course (3.0 credit hours) in Geography at the 3000/4000 level
- _____ Two additional courses (6.0 credit hours) chosen to complete program requirements

_____ **12.-23. Concentration in Psychology (12 courses)**

- _____ Psychology 1010 - Introduction to Psychology A: Evolution, Mechanisms, and Cognition/ Perception
- _____ Psychology 1020 - Introduction to Psychology B: Developmental, Sociocultural, and Abnormal
- _____ Psychology 1030 - Key Skills in Psychology
- _____ Psychology 2030 - Thinking with Data I
- _____ Psychology 3400 - Thinking with Data II
- _____ Four courses (12.0 credit hours) in Psychology or Neuroscience at the 2000 level

- _____ Two additional courses (6.0 credit hours) in Psychology or Neuroscience at the 3000/4000 level

- _____ One course (3.0 credit hours) in Psychology at the 4000 level

Electives (17 Courses)

- _____ **24.-40.** Seventeen additional courses (51.0 credit hours) chosen to complete program requirements

- _____ 24. _____
- _____ 25. _____
- _____ 26. _____
- _____ 27. _____
- _____ 28. _____
- _____ 29. _____
- _____ 30. _____
- _____ 31. _____
- _____ 32. _____
- _____ 33. _____
- _____ 34. _____
- _____ 35. _____
- _____ 36. _____
- _____ 37. _____
- _____ 38. _____
- _____ 39. _____
- _____ 40. _____



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Liberal Education List Requirement

Only four courses (12.0 credit hours) in total may be counted from any one discipline toward the Lib Ed Requirement. Disciplines are identified by separate course subject codes. Cross-listed courses count toward the limit for both disciplines (e.g. Geography 3225/Global Business 3225 counts toward the limit for Geography and Dhillon School of Business courses).

Only four courses (12.0 credit hours) in total from the Faculty of Education (EDUC), Faculty of Health Sciences (AMHC, HLSC, INHL, NURS, PUBH, and TREC), and the Dhillon School of Business (ACCT, AGEM, DGTR, FINC, GLBU, HRLR, IGBM, MGT, and MKTG) may be counted towards the Lib Ed Requirement.

To determine if a course has a Liberal Education designation, see School of Liberal Education in the 2026/2027 University of Lethbridge Undergraduate Calendar, www.ulethbridge.ca/ross/academic-calendar.

_____ **1.-4. List I: Fine Arts and Humanities**

- _____ 1. _____
- _____ 2. _____
- _____ 3. _____
- _____ 4. _____

_____ **5.-8. List II: Social Science**

- _____ 5. _____
- _____ 6. _____
- _____ 7. _____
- _____ 8. _____

_____ **9.-12. List III: Science**

- _____ 9. _____
- _____ 10. _____
- _____ 11. _____
- _____ 12. _____

General Requirements

- _____ A minimum of 40 courses (120.0 credit hours) with a GPA of at least 2.00.
- _____ A maximum of five Independent Study courses (15.0 credit hours) may be completed for credit towards the degree.
- _____ A maximum of five Disciplinary Credit Applied Studies courses (15.0 credit hours) may be completed for credit towards the degree. Students may, in addition, complete Applied Studies 2000, 2001, 2010, and 2011.
- _____ A maximum of 24 courses (72.0 credit hours) may be completed from any one discipline for credit towards the degree. Disciplines are identified by a specific course label (e.g. KNES, ASTR, and HIST are separate disciplines).
- _____ A maximum of 6.0 credit hours in Activity courses (i.e. courses labelled PHAC and MUSE) may be completed for credit towards the degree, except for Kinesiology majors (not more than 15.0 credit hours) and Music majors (not more than 12.0 credit hours).
- _____ A maximum of six courses (18.0 credit hours) from disciplines offered outside the Faculty of Arts and Science, Faculty of Fine Arts, or School of Liberal Education may be completed for credit towards the degree (i.e. labelled ACCT, AGEM, AMHC, CDEV, CRED, DGTR, EDUC, FINC, GLBU, HLSC, HRLR, IGBM, INHL, MGT, MKTG, NURS, PUBH, and TREC). Courses cross-listed between the Faculty of Arts and Science and another Faculty or School do not count towards this limit.
- _____ Residence requirement: a minimum of 20 courses (60.0 credit hours) must be completed at the University of Lethbridge, including at least 10 courses (30.0 credit hours) from disciplines offered by the Faculty of Arts and Science, Faculty of Fine Arts, or School of Liberal Education at the 3000/4000 level. At least half of the courses required in the major must be completed at the University of Lethbridge.

A **maximum** of 12 courses (36.0 credit hours) may be completed at the 1000 level (or lower) for credit towards the degree, excluding Activity courses (labelled PHAC and MUSE) and courses numbered in the range of 0520 to 0530.

_____ **1.-12. Introductory Course Limit**

- _____ 1. _____
- _____ 2. _____
- _____ 3. _____
- _____ 4. _____
- _____ 5. _____
- _____ 6. _____
- _____ 7. _____
- _____ 8. _____
- _____ 9. _____
- _____ 10. _____
- _____ 11. _____
- _____ 12. _____

A **minimum** of 15 courses (45.0 credit hours) from disciplines offered by the Faculty of Arts and Science, Faculty of Fine Arts, or School of Liberal Education at the 3000/4000 level, excluding Activity courses (labelled PHAC and MUSE). Out-of-faculty courses (i.e. labelled ACCT, AGEM, AMHC, CDEV, CRED, DGTR, EDUC, FINC, GLBU, HLSC, HRLR, IGBM, INHL, MGT, MKTG, NURS, PUBH, and TREC) will not meet this requirement.

_____ **1.-15. Senior Course Requirement**

- _____ 1. _____
- _____ 2. _____
- _____ 3. _____
- _____ 4. _____
- _____ 5. _____
- _____ 6. _____
- _____ 7. _____
- _____ 8. _____
- _____ 9. _____
- _____ 10. _____
- _____ 11. _____
- _____ 12. _____
- _____ 13. _____
- _____ 14. _____
- _____ 15. _____

Optional Minor: _____

For information about minors see **Minors** in the 2026/2027 University of Lethbridge Calendar, www.ulethbridge.ca/ross/academic-calendar. Consult with an Academic Advisor if you wish to add a minor to your program.

_____ **1.-6. Required Courses**

- _____ 1. _____
- _____ 2. _____
- _____ 3. _____
- _____ 4. _____
- _____ 5. _____
- _____ 6. _____



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Shown below is the recommended sequence of courses for your degree. Consult timetables for course offerings, prerequisites, and corequisites before registering each term as some courses may have limited offerings (ie. once a year, alternating years, or only offered in the Fall or Winter terms).

Consult with an Academic Advisor in your faculty if you wish to alter this sequence with regard to the specifically listed courses.

Note that this sequence was prepared based on course scheduling at the time of publication and may change during your studies.

First Year

- Mathematics 1410
- One of: **Mathematics 1560** or **Mathematics 1565**
- One of: **Mathematics 2560** or **Mathematics 2565**
- Statistics 1770**
- Concentration course
- Concentration course
- Lib Ed Requirement course

Second Year

- Computer Science 1620
- One of: **Statistics 2780** or **Economics 2900**
- Statistics Elective
- Concentration course
- Concentration course
- Concentration course or Elective
- Concentration course or Elective
- Lib Ed Requirement course
- Lib Ed Requirement course
- Elective

Third Year

- Statistics 3500
- Statistics 3510
- Statistics 3000/4000 level
- Concentration course
- Concentration course
- Concentration course
- Elective 3000/4000 level
- Elective 3000/4000 level
- Elective
- Elective

Fourth Year

- Statistics 4000 level
- Concentration course
- Concentration course
- Concentration course
- Elective 3000/4000 level
- Elective

Note: Courses in bold in Years 1 and 2 of the sample sequence are prerequisite(s) for required courses and should be completed early in your program. Students are advised to review the prerequisites for elective courses within the major and plan accordingly.